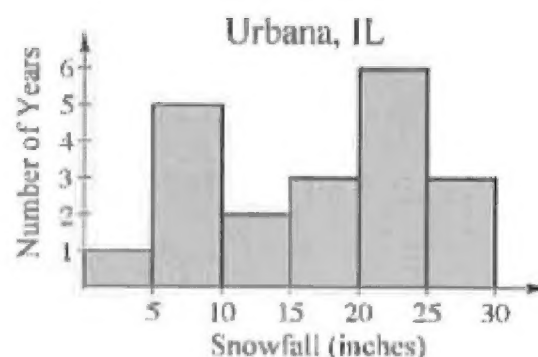


Read each question carefully. Show all work!

- 1-29. Use the histogram at right to answer the following questions. The histogram contains the amount of snowfall in Urbana, IL during winter from 1990 – 2009.



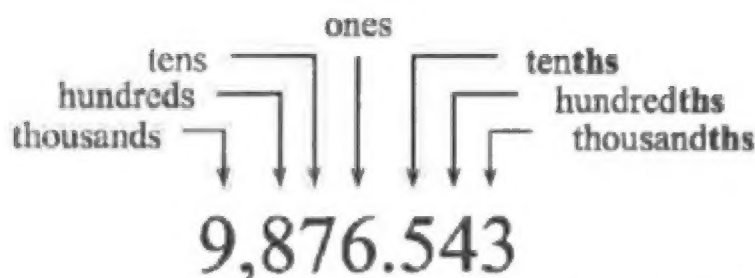
- Which range of snowfall measurements occurred most often?
  - Were there any years with unusually high or low snowfall amounts?
  - Half of the years had snowfall amounts above how many inches?
- 1-30. Copy the number patterns below and write the next four numbers in the pattern. Assume the pattern continues as shown. Describe the pattern in words.
- 2, 7, 12, 17, 22, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 1, 4, 9, 16, 25, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - 1, 1, 2, 3, 5, 8, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Describe each pattern in words.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_



Round each number to the specified place. Read the Math Notes box in this lesson for a reminder of rounding to a given place value.

a. 5294.6  
(hundred)

b. 45,469.23  
(thousand)

c. 7526.442  
(hundredth)

d. 492.3069  
(thousandth)

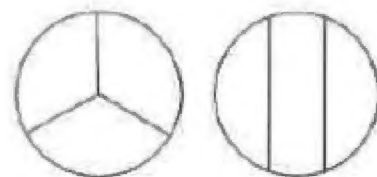
- 1-38. Nadine and Diondra were working together to divide a circle into three equal parts. They came up with the diagrams shown below right. Tanisha said, "*One of these pictures is wrong.*"



Note: This stoplight icon will appear periodically throughout the text. Problems that display this icon contain errors of some type.

When you explain why something is a mistake, you are less likely to make the same mistake yourself.

What do you think? Is one picture incorrect? If so, which one? Why?



- a. Put an x under the circle that is not divided correctly.
- b. What is wrong with the way it is divided? \_\_\_\_\_
- \_\_\_\_\_
- c. What fractions can be written for the circle that is divided correctly?
- \_\_\_\_\_

